

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 2771-682 US
INTERNATIONAL APPLICATION NO. PCT/US2004/033915		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) Not Yet Known 10/575556
INTERNATIONAL FILING DATE 14 October 2004		PRIORITY DATE CLAIMED 14 October 2003
TITLE OF INVENTION: HYDROGEN GENERATION		
APPLICANT(S) FOR DO/EO/US: J. Donald Carruthers, Jose I. Arno		

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

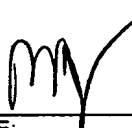
- ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
- ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
- ☒ This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.
- ☒ The US has been elected (Article 31).
- ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
 - ☒ is attached hereto (required only if not communicated by the International Bureau). **International Publication No. WO 2005/037421 as published on April 28, 2005**
 - ☐ has been communicated by the International Bureau.
 - ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
- ☐ An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).
 - ☐ is attached hereto.
 - ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
- ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - ☐ are attached hereto (required only if not communicated by the International Bureau).
 - ☐ have been communicated by the International Bureau.
 - ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - ☐ have not been made and will not be made.
- ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
- ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
- ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

- ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
- ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- ☐ A preliminary amendment.
- ☐ An Application Data Sheet under 37 CFR 1.76.
- ☐ A substitute specification.
- ☒ A power of attorney and/or change of address letter.
- ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.
- ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
- ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491–1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

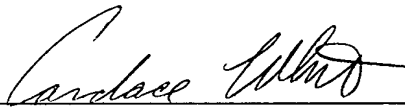
U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/575556 (If not known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO. PCT/US04/033915		ATTORNEY'S DOCKET NUMBER 2771-682 US	
20. Other items or information: Return Receipt Postcard and Credit Card Form					
The following fees have been submitted				CALCULATIONS	PTO USE ONLY
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))				\$300	
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))				\$ 0	
If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of the PCT Article 33(1)-(4) \$0					
All other situations \$200					
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))				0	
If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of the PCT Article 33(1)-(4) \$0					
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100					
International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB. \$400					
All other situations \$500					
TOTAL OF 21, 22 and 23 =				\$ 300	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing IN COMPLIANCE WITH 37 cfr 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
45	-100 =	0	/50 =	0	x \$250
				\$ 0	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of the commencement of the national stage (37 CFR 1.492(h)).				\$ 0	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	83 - 20 =	63	X \$50	\$3,150	
Independent claims	5 - 3 =	2	X \$200	\$ 400	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ \$360	\$ 0
TOTAL OF ABOVE CALCULATIONS =				\$3,850	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.				\$3,850	
SUBTOTAL =				\$3,850	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				+	\$ 0
TOTAL NATIONAL FEE =				\$3,850	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+	\$ 0
TOTAL FEES ENCLOSED =				\$3,850	
a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>08-3284</u> . A duplicate copy of this sheet is enclosed. d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:					
INTELLECTUAL PROPERTY/TECHNOLOGY LAW P.O. Box 14329 Research Triangle Park, NC 27709-4329			 SIGNATURE:		
			Steven J. Hultquist NAME		
			28,021 REGISTRATION NUMBER		

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re United States Patent Application of:)	
)	
Applicant(s):	Carruthers, et al.)	Docket No.: 2771-682 US
)	
Application No.:	New U.S. National Stage Application of PCT International Application No. PCT/US2004/033915)	Examiner: Not Yet Assigned
)	
Int'l Filing Date:	14 October 2004)	Art Unit: Not Yet Assigned
)	
Priority Date:	14 October 2003 (U.S. Provisional Patent Application No. 60/510,983))	
)	
Title:	HYDROGEN GENERATION)	Customer No.: 23448
)	

EXPRESS MAIL CERTIFICATE

I hereby certify that I am mailing the attached documents to the Commissioner for Patents on the date specified, in an envelope addressed to Mail Stop: PCT Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 and Express Mailed under the provisions of 37 CFR 1.10.



Candace White

April 10, 2006

Date

EO 008 658 765 US

Express Mail Label Number

**SUBMISSION UNDER 35 U.S.C. §371 OF UNITED STATES PATENT APPLICATION
(NATIONAL PHASE PROCEEDINGS) BASED ON INTERNATIONAL APPLICATION NO.
PCT/US2004/033915 AND CLAIMING PRIORITY OF U. S. PROVISIONAL PATENT
APPLICATION NO. 60/510,983**

Mail Stop: PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith for filing under the provisions of 37 CFR §1.53 and 35 U.S.C. §371 is the above-referenced patent application, based on International Patent Application No. PCT/US2004/033915 and claiming priority of U.S. Provisional Patent Application No. 60/510,983. A copy of International Publication No. WO 2005/037421 as published on April 28, 2005 is also included. Further included

10/575556

IAP15 Rec'd PCT/PTO 10 APR 2006

is a copy of the signed PCT Power of Attorney documents, a return postcard, and a credit card form in the amount of \$3,850.00 and 35 U.S.C. §371 transmittal forms.

Please direct correspondence relating to this application to Steven J. Hultquist, Intellectual Property Technology Law, P.O. Box 14329, Research Triangle Park, NC 27709, and direct telephonic communications relating to this application to Steven J. Hultquist at (919) 419-9350.

Respectfully submitted,



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Attorney for Applicants

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